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COMPUTER ORGANISATION

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Time : Three hours

Maximum : 100 marks

## PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Explain instruction code and their usage.
2. Explain control unit with a block diagram.
3. Discuss arithmetic Logic unit with suitable circuit.
4. Explain the pipeline processing using a simple example.
5. Explain peripherals devices.
6. What are the advantages of using micro programmed control unit?
7. Explain asynchronous data transfer.
8. Write note on Strobe control
9. Explain interrupt cycle micro operations with a flow chart.
10. Explain memory protection.

## PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. Explain three categories of computer Instructions.
12. Explain the micro instruction format with suitable example.
13. Explain any one priority interrupt.
14. Explain any two modes of data transfer between central computer and peripherals.
15. Explain associative memory table with suitable block diagram.
16. Explain cache memory with the help of diagram.

## PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. Explain the cache memory organization.
18. Discuss I/O Bus and Interface Module with suitable diagrams.
19. Write note on
  - (a) Associative memory
  - (b) Address space and Memory space.